Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1-32. (cancelled)

33. (Currently Amended) A method of providing a transition region in a guide catheter, the guide catheter including an inner layer and an outer layer, the guide catheter having a distal region, a proximal region and an intervening transition region, the method comprising steps of:

removing a portion of the outer layer proximate the transition region; and

replacing the removed portion of the outer layer with a different polymer to form the transition region;

wherein the transition region has a resulting flex modulus that is different from that of the distal region and the proximal region.

- 34. (Withdrawn) The method of claim 33, wherein removing a portion of the outer layer comprises removing a band of material.
- (Previously Presented) The method of claim 33, wherein removing a portion of the outer layer comprises forming one or more annular grooves.
- (Withdrawn) The method of claim 33, wherein removing a portion of the outer layer comprises forming one or more longitudinal grooves.
- 37. (Withdrawn) The method of claim 33, wherein replacing the removed material further comprises forming an atraumatic tip with the different polymer.
- (Previously Presented) The method of claim 33, wherein the different polymer has a lower flex modulus than the material removed.

- (Previously Presented) The method of claim 33, wherein the different polymer has a higher flex modulus than the material removed.
- 40. (Previously Presented) A method of forming an intravascular catheter, the method comprising:

providing an elongate shaft including an inner layer comprising a first polymer material and an outer layer comprising a second polymer material disposed over the inner layer, the elongate shaft having a proximal region, a distal region and an intermediate region located intermediate the proximal region and the distal region;

removing a portion of the outer layer in the intermediate region of the elongate shaft to impart the elongate shaft with a transition zone having a flexibility different from the proximal region and the distal region of the elongate shaft.

- 41. (Previously Presented) The method of claim 40, wherein during the step of removing a portion of the outer layer in the intermediate region, one or more annular grooves are formed in the elongate shaft.
- 42. (Previously Presented) The method of claim 41, further comprising the step of filling the annular grooves with a third polymer material different from the second polymer material.
- 43. (Previously Presented) The method of claim 42, wherein the second polymer material has a durometer and the third polymer material has a durometer greater than the durometer of the second polymer material.
- 44. (Previously Presented) The method of claim 42, wherein the second polymer material has a durometer and the third polymer material has a durometer less than the durometer of the second polymer material.

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45. (Previously Presented) The method of claim 40, further comprising the step of replacing the removed portion of the outer layer with a third polymer material different from the

second polymer material.

46. (Previously Presented) The method of claim 45, wherein the second polymer

material has a durometer and the third polymer material has a durometer greater than the

durometer of the second polymer material.

47. (Previously Presented) The method of claim 45, wherein the second polymer

material has a durometer and the third polymer material has a durometer less than the durometer

of the second polymer material.

48. (Previously Presented) The method of claim 40, wherein the elongate shaft

includes a support member located between the inner layer and the outer layer, wherein the step of removing a portion of the outer layer in the intermediate region of the elongate shaft exposes

the support member.

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